



General Information for the Infusion Process

1. Precautions using the Shark 710 for the infusion process

- A. Know where the power switch is located and the emergency shut off.
- B. Use only 110 volt with 20 amp circuit
- C. Do not use an extension cord or surge protectors when plugging in the Shark 710.
- D. Flammable substances not in use should be stored away from the Shark 710 while in use.
- E. Be aware of pinch points while the machine is in use.
- F. Be aware of needles and move the head before attempting to lift a tray.
- G. Unplug the Shark 710 while preparing the system for infusion.
- H. Only trained personnel should operate the Shark 710 for any process.

2. Preparation for Infusion

To prepare the Shark 710 for infusion, complete the steps for replacing the needles (see needle replacement video at www.convectium.com or the 710SHARK Preventative Maintenance Manual: https://www.convectium.com/uploads/1/3/3/1/133155264/710shark_user_manual_v8.pdf)

While the head is off simply remove $\frac{3}{4}$ of the needles and make sure the remaining 25 needles are equally spaced. Check all seals for wear. After the head is in place, use the centering adjustments under the receiving platform (left side) and adjust the needle position until they are centered on the tray cups. Be sure whatever the container(s) being used are Food Grade quality.

3. Operation Procedure

Check that all air lines are secured. Turn on the Closed Loop air compression system and build up pressure to desired pressure for the head to move freely without jolting. Adjust the motion of the head and platforms to move smoothly by going to the adjustment panel on the side of the machine.

Turn on the Shark 710 v.8.0. The screen will show 3 prompts for operation, Manual Operate, Auto Operate and Parameter Settings. Selection. Auto Operation There you can set your temperatures to heat the needle head and reservoir basin.

On the vertical shaft holding the head there is a black sleeve. This is your deposit control. Turn the black sleeve counter- clockwise to 0. From this position slowly turn the black sleeve clockwise slightly to the desired dosage. Before infusing the product, run the system with alcohol to ensure the proper dosage is being administered.

4. Infusion with the Shark 710 v8.0

Make sure the air compressor lines are secure. Turn on the Closed Loop Air Compression System. Turn on the Shark 710 v8.0. Once the air pressure is ready, run the system moving the needle head back and forth and raising the platforms up and down. Adjust each so the motion is smooth.

Before infusing your product, place alcohol into the basin and perform test runs to ensure the correct dosage is coming out of all the needles. Keep the needles about ¼" away from the product. Once the system is running correctly, empty the basin and fill with oil or oil/alcohol mixture and begin infusing.

5. Post Infusion Protocol

Once the infusion of the product is completed it may be necessary to allow the oil to absorb into the product. With oil/alcohol mixtures, it will be necessary to allow the alcohol to dissipate or heat off prior to testing. If air drying, cover the product from exposure. If heating the product to "burn off" the excess residue of alcohol, set the product in an oven at 150F to 200F for 4 minutes. Immediately after heating, remove the product and let sit and cool before attempting to seal and package.

6. Accessories

Make sure all accessories used in the infusion process are food grade quality. This would include trays, utensils, screens etc.. Anything that comes in contact with food products.

7. Clean Up and Maintenance

Follow the clean up procedure on the manual for purging the system of oil. If using a container that comes in contact with oil, lightly spray the surface with alcohol to break up the oil and wash with hot water. Follow the maintenance program for the Shark 710 v8.0 for scheduled maintenance.